The University of Texas at Arlington
The Department of Kinesiology

presents

36th Semi-Annual Lecture

With

J. Larry Durstine, Ph.D.

Professor and Chair, Department of Exercise Science
University of South Carolina

LECTURE:
“Physical Activity: Chronic Diseases and Disabilities”

Wednesday, October 27, 2004 – 12:00 Noon
Activities Building    Lone Star Theatre
PREVIOUS UTA ACSM LECTURERS

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<tr>
<th>Spring 1998</th>
<th>John M. Johnson, Ph.D., Ph.D., UT Health Science Center at San Antonio “Regulation of Cutaneous Circulation in Humans”</th>
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<td>Fall, 1998</td>
<td>Michael J. Joyner, M.D., Mayo Foundation, Rochester, MN “Regulation of Muscle Blood Flow and Implications for Aging and the Limits of Human Performance”</td>
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<tr>
<td>Spring, 1999</td>
<td>Peter B. Raven, Ph.D., University of North Texas Health Science Center, “Baroreflex Control of Blood Pressure During Exercise”</td>
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<td>Fall, 1999</td>
<td>George A. Brooks, Ph.D., University of California, Berkeley “Pathways to Carbohydrate Utilization During Exercise: Intracellular and Cell-Cell Lactate Shuttles”</td>
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<tr>
<td>Spring, 2000</td>
<td>Benjamin D. Levine, M.D., The University of Texas Southwestern Medical Center at Dallas. “Critical Appraisals of Modern Approach to Altitude Training”</td>
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<td>Fall, 2000</td>
<td>James M. Hagberg, Ph.D., University of Maryland “Exercise Training and Aging”</td>
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<td>Spring, 2001</td>
<td>Michael D. Delp, Ph.D., Texas A &amp; M University, “Space Exploration: Expanding Our Understanding of the Human Body on Earth”</td>
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<td>Fall, 2001</td>
<td>M. Harold Laughlin, Ph.D., Professor and Chair, Department of Veterinary Biomedical Science, University of Missouri, “Ethics and Cheating in Research: Is Science Dispassionate Pursuit of Truth?”</td>
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<td>Spring, 2002</td>
<td>Jon W. Williamson, Ph.D., Assistant Dean for Research at The University of Texas Southwestern Medical Center, Allied Health Sciences School, “Brain Activation During Exercise In Humans”</td>
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<td>Fall, 2002</td>
<td>Michael N. Sawka, Ph.D., Chief, Thermal &amp; Mountain Medicine Division, US Army Research Institute of Environmental Medicine, Natick, MA, “Human Adaptations to Heat Stress”</td>
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<td>Spring, 2003</td>
<td>Barry W. Scheuermann, Ph.D., Texas Tech University, “Integrating Metabolic Responses with Muscle Recruitment Patterns During Moderate and Intense Exercise”</td>
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<td>Fall, 2003</td>
<td>Tony G. Babb, Ph.D., Institute for Exercise and Environmental Medicine of Presbyterian Hospital of Dallas, “Is it the Fat or Where it’s At: Obesity, Fat Distribution, Weight Loss, and Breathing”</td>
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<td>Spring, 2004</td>
<td>Terry J. Housh, Ph.D., University of Nebraska-Lincoln, “Electromyographic and Mechanomyographic Aspects of Muscle Function”</td>
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KEY TERMS

- Carbohydrate Utilization During Exercise: Intracellular and Cell-Cell Lactate Shuttles
- Space Exploration: Expanding Our Understanding of the Human Body on Earth
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- Integrating Metabolic Responses with Muscle Recruitment Patterns During Moderate and Intense Exercise
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- Electromyographic and Mechanomyographic Aspects of Muscle Function

KEY CONCEPTS/POINTS

- Regulation of Cutaneous Circulation in Humans
- Regulation of Muscle Blood Flow and Implications for Aging and the Limits of Human Performance
- Baroreflex Control of Blood Pressure During Exercise
- Pathways to Carbohydrate Utilization During Exercise: Intracellular and Cell-Cell Lactate Shuttles
- Critical Appraisals of Modern Approach to Altitude Training
- Exercise Training and Aging
- Space Exploration: Expanding Our Understanding of the Human Body on Earth
- Ethics and Cheating in Research: Is Science Dispassionate Pursuit of Truth?
- Brain Activation During Exercise In Humans
- Human Adaptations to Heat Stress
- Integrating Metabolic Responses with Muscle Recruitment Patterns During Moderate and Intense Exercise
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- Electromyographic and Mechanomyographic Aspects of Muscle Function

IMPLICATIONS/DIRECTIONS

- Most importantly, Dr. Durstine has been married to his wife Linda for 29 years and has two sons; Jason (age 28) a University of South Carolina engineering graduate; Michael (age 21) presently a Senior at Hampton Sydney College in Virginia; and one grandson Jackson who was born in August of this year. He also has a puppy named Toby.

J. Larry Durstine Ph.D.

Dr. Durstine has been at The University of South Carolina since 1982 and is presently the Chair of the Department of Exercise Science in the Arnold School of Public Health. He is also the Director of Clinical Exercise Programs and is responsible for overseeing various clinical programs that include coronary artery risk factor screening, graded exercise testing, and physical activity programming for healthy and chronic diseased and for disabled persons. Dr. Durstine has maintained an active research program with nearly 60 referred research publications. He has edited four books, written more than 20 book chapters, and has published many abstracts at the international, national, regional, and state level. He has completed exercise research studies employing cross sectional and longitudinal experimental designs with both men and women evaluating regularly practiced physical activity and the impact of a single exercise session on blood lipid and lipoprotein concentrations. Present work emphasizes the evaluation of relationships between exercise, novel cardiovascular disease risk factors such as CRP, Lp(a), homocysteine in men and minority women, and persons with chronic diseases and disabilities.

Dr. Durstine has served as an executive board member for two national organizations: American College of Sports Medicine and the American Association for Cardiovascular and Pulmonary Rehabilitation and is a fellow in both organizations. He presently serves as a Vice-President in addition to one of two candidates for the ACSM presidency.

Dr. Durstine has received many awards. He was a finalist for the University of South Carolina AMOCO Teaching Award in 2003 and 2004 and received the Arnold School Public Health James A. Keith Excellence in Teaching Award in 2003. He has twice been the recipient of the Excellence in Teaching Award presented by Alpha Chapter of Mortar Board at the University of South Carolina and was awarded the 1992 Ada B. Thomas Outstanding Faculty Advisor Award also presented by the University of South Carolina. He received the 2000 Service Citation Award presented by the Southeastern American College of Sports Medicine and the 2000 Service Citation Award presented by the South Carolina State Cardiac Rehabilitation Society.

Most importantly, Dr. Durstine has been married to his wife Linda for 29 years and has two sons; Jason (age 28) a University of South Carolina engineering graduate; Michael (age 21) presently a Senior at Hampton Sydney College in Virginia; and one grandson Jackson who was born in August of this year. He also has a puppy named Toby.

There will be a brief question and answer period at the end of the presentation. Please welcome Dr. Durstine to UTA and give him your attention until the end of the question and answer session.